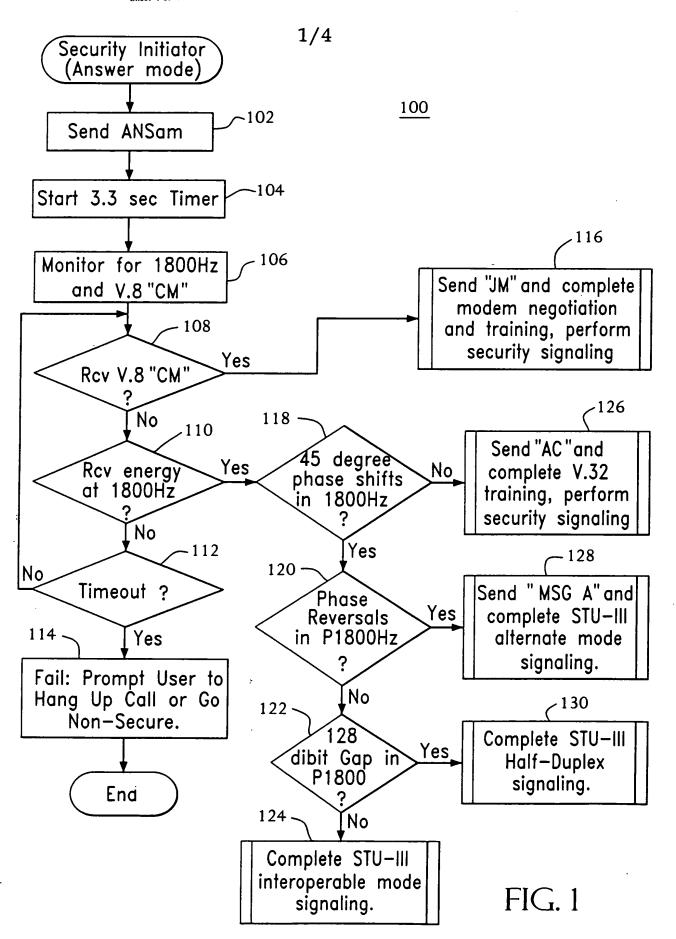
Docket No.: LCOM-0657

App No.: Not yet assigned Filed: March 11, 2004
Title: Multimode Modem with Automatic Negotiation of Operational Mode
Inventors: Frank Costantini

Attorney: Joseph R. Condo Sheet 1 of 4

Phone: (215) 568-3100



Title: Multimode Modern with Automatic Negotiation of Operational Mode Inventors: Frank Costantini Phone: (215) 568-3100 Attorney: Joseph R. Condo 2/4 FIG. 2 Non-Secure Start <u>20</u>0 204 No 202 Perform STU-III Yes 1800 Hz Half-Duplex for one sec signaling 208 206 -No Send V.8 "CM," complete V.8 modem negotiation Yes Rcv ANSam for and training, perform onesec security signaling . No 210 --212 Transmit P1800Hz with Rcv 2100 Hz Yes Phase Reversals for one sec 216 214 Yes Rcv. ESCD Stop Start 150 msec timer 222 220 218-Complete V.32 Tranmit "AA," Yes Training, Perform Rcv. V.32 "AC" Stop Timer Security Signaling No - 228 226 224 Complete STU-III Rcv. FSVS Yes Alternate Mode Stop Timer MSG A Signaling 234 No 232 230-Complete STU-III Yes Interoperable Transmit SCR1 Timeout ? Mode Signaling

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Sheet 3 of 4

3/4

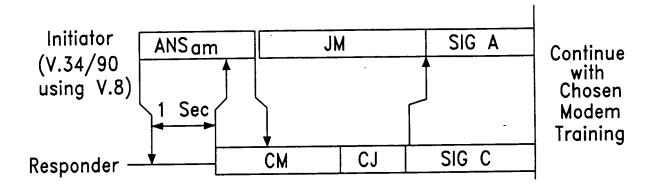


FIG. 3A

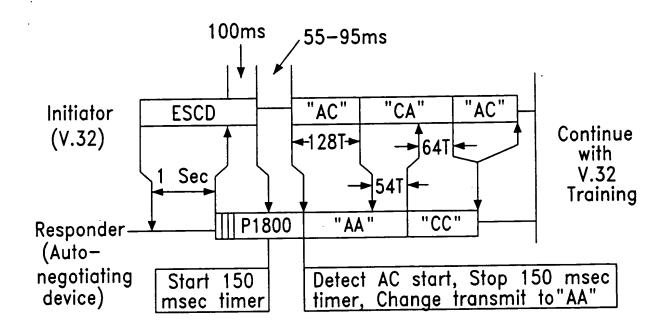


FIG. 3B

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Inventors: Frank Costantini Attorney: Joseph R. Condo Sheet 4 of 4

4/4 75-95ms 90ms Initiator (STU-III **ALT** ESD/ESCD MSG A alternate Continue with mode) **Alternate** Signaling Sec Responder MSG B P1800 (Autonegotiating Stop 150 Start 150 device) msec timer msec timer

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FIG. 3C

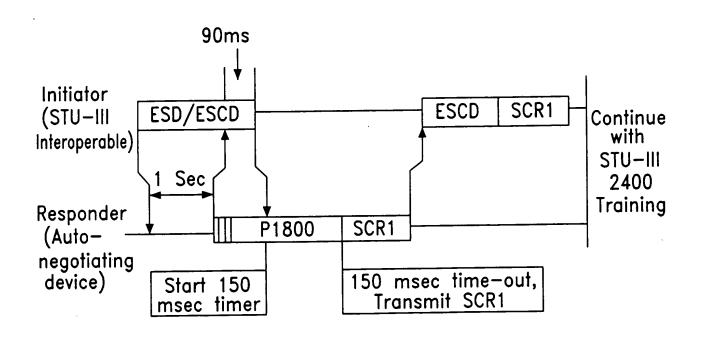


FIG. 3D